

30917 Tomich.ST25.txt
SEQUENCE LISTING

<110> Tomich, John
Iwamoto, Takeo
Broughman, James
Schultz, Bruce

<120> M2GlyR DERIVED CHANNEL FORMING PEPTIDES

<130> 30917

<160> 53

<170> PatentIn version 3.0

<210> 1

<211> 23

<212> PRT

<213> Homo sapiens

<400> 1

Pro Ala Arg Val Gly Leu Gly Ile Thr Thr Val Leu Thr Met Thr Thr
1 5 10 15

Gln Ser Ser Gly Ser Arg Ala
20

<210> 2

<211> 27

<212> PRT

<213> Modified Homo sapiens

<400> 2

Pro Ala Arg Val Gly Leu Gly Ile Thr Thr Val Leu Thr Met Thr Thr
1 5 10 15

Gln Ser Ser Gly Ser Arg Ala Lys Lys Lys Lys
20 25

<210> 3

<211> 27

<212> PRT

<213> Modified Homo sapiens

<400> 3

30917 Tomich.ST25.txt

Lys Lys Lys Lys Pro Ala Arg Val Gly Leu Gly Ile Thr Thr Val Leu
1 5 10 15

Thr Met Thr Thr Gln Ser Ser Gly Ser Arg Ala
20 25

<210> 4
<211> 27
<212> PRT
<213> Modified Homo sapiens

<400> 4

Lys Lys Lys Lys Ala Arg Ser Gly Ser Ser Gln Thr Thr Met Thr Leu
1 5 10 15

Val Thr Thr Ile Gly Leu Gly Val Arg Ala Ala
20 25

<210> 5
<211> 27
<212> PRT
<213> Modified Homo sapiens

<400> 5

Lys Lys Lys Lys Val Thr Thr Ile Gly Leu Gly Val Arg Ala Pro Leu
1 5 10 15

Val Thr Thr Ile Gly Leu Gly Val Arg Ala Ala
20 25

<210> 6
<211> 27
<212> PRT
<213> Modified Homo sapiens

<400> 6

Lys Lys Lys Lys Thr Met Thr Thr Gln Ser Ser Gly Ser Arg Ala Leu
1 5 10 15

Thr Met Thr Thr Gln Ser Ser Gly Ser Arg Ala
20 25

<210> 7
<211> 27
<212> PRT

30917 Tomich.ST25.txt
<213> Modified Homo sapiens

<400> 7

Lys Lys Lys Lys Thr Met Thr Thr Gln Ser Ser Gly Ser Arg Ala Leu
1 5 10 15

Val Thr Thr Ile Gly Leu Gly Val Arg Ala Ala
20 25

<210> 8

<211> 27

<212> PRT

<213> Modified Homo sapiens

<400> 8

Lys Lys Lys Lys Val Thr Thr Ile Gly Leu Gly Val Arg Ala Pro Leu
1 5 10 15

Ala Arg Ser Gly Ser Ser Gln Thr Thr Met Thr
20 25

<210> 9

<211> 27

<212> PRT

<213> Modified Homo sapiens

<400> 9

Lys Lys Lys Lys Ala Ala Arg Val Gly Leu Gly Ile Thr Thr Val Trp
1 5 10 15

Val Thr Thr Ile Gly Leu Gly Val Arg Ala Ala
20 25

<210> 10

<211> 27

<212> PRT

<213> Modified Homo sapiens

<400> 10

Lys Lys Lys Lys Pro Ala Arg Val Gly Leu Gly Ile Thr Thr Val Trp
1 5 10 15

Thr Met Thr Thr Gln Ser Ser Gly Ser Arg Ala
20 25

<210> 11
 <211> 27
 <212> PRT
 <213> Modified Homo sapiens

<400> 11

Lys Lys Lys Lys Pro Ala Arg Val Gly Leu Gly Ile Thr Thr Val Thr
 1 5 10 15

Thr Met Thr Thr Gln Ser Ser Gly Ser Arg Ala
 20 25

<210> 12
 <211> 28
 <212> PRT
 <213> Modified Homo sapiens

<400> 12

Lys Lys Lys Lys Pro Ala Arg Val Gly Leu Gly Ile Thr Thr Val Leu
 1 5 10 15

Thr Met Thr Thr Gln Ser Ser Gly Ser Arg Ala Trp
 20 25

<210> 13
 <211> 22
 <212> PRT
 <213> Modified Homo sapiens

<400> 13

Lys Lys Lys Lys Pro Ala Arg Val Gly Leu Gly Ile Thr Thr Val Leu
 1 5 10 15

Thr Met Thr Thr Arg Ser
 20

<210> 14
 <211> 22
 <212> PRT
 <213> Modified Homo sapiens

<400> 14

Lys Lys Lys Lys Pro Ala Arg Val Gly Leu Gly Ile Thr Thr Val Leu

30917 Tomich.ST25.txt

1

5

10

15

Thr Met Thr Thr Gln Arg
20

<210> 15
<211> 22
<212> PRT
<213> Modified Homo sapiens

<400> 15

Lys Lys Lys Lys Pro Ala Arg Val Gly Leu Gly Ile Thr Thr Val Leu
1 5 10 15

Thr Arg Thr Thr Gln Ser
20

<210> 16
<211> 27
<212> PRT
<213> Modified Homo sapiens

<400> 16

Lys Lys Lys Lys Ala Arg Ser Gly Ser Ser Gln Thr Thr Met Thr Leu
1 5 10 15

Val Thr Thr Ile Gly Leu Gly Val Arg Ala Pro
20 25

<210> 17
<211> 27
<212> PRT
<213> Modified Homo sapiens

<400> 17

Ala Arg Ser Gly Ser Ser Gln Thr Thr Met Thr Leu Val Thr Thr Ile
1 5 10 15

Gly Leu Gly Val Arg Ala Pro Lys Lys Lys Lys
20 25

<210> 18
<211> 27
<212> PRT
<213> Modified Homo sapiens

<400> 18

Lys Lys Lys Lys Pro Ala Arg Val Gly Leu Gly Ile Thr Thr Val Leu
 1 5 10 15

Val Thr Thr Ile Gly Leu Gly Val Arg Ala Pro
 20 25

<210> 19

<211> 27

<212> PRT

<213> Modified Homo sapiens

<400> 19

Pro Ala Arg Val Gly Leu Gly Ile Thr Thr Val Leu Val Thr Thr Ile
 1 5 10 15

Gly Leu Gly Val Arg Ala Pro Lys Lys Lys Lys
 20 25

<210> 20

<211> 27

<212> PRT

<213> Modified Homo sapiens

<400> 20

Lys Lys Lys Lys Pro Ala Arg Val Gly Leu Gly Ile Thr Thr Val Leu
 1 5 10 15

Pro Ala Arg Val Gly Leu Gly Ile Thr Thr Val
 20 25

<210> 21

<211> 27

<212> PRT

<213> Modified Homo sapiens

<400> 21

Lys Lys Lys Lys Pro Ala Arg Val Gly Leu Gly Ile Thr Thr Val Leu
 1 5 10 15

Ala Ala Arg Val Gly Leu Gly Ile Thr Thr Val
 20 25

<210> 22
 <211> 27
 <212> PRT
 <213> Modified Homo sapiens

<400> 22

Lys Lys Lys Lys Val Thr Thr Ile Gly Leu Gly Val Arg Ala Pro Leu
 1 5 10 15

Pro Ala Arg Val Gly Leu Gly Ile Thr Thr Val
 20 25

<210> 23
 <211> 27
 <212> PRT
 <213> Modified Homo sapiens

<400> 23

Lys Lys Lys Lys Ala Arg Ser Gly Ser Ser Gln Thr Thr Met Thr Leu
 1 5 10 15

Thr Met Thr Thr Gln Ser Ser Gly Ser Arg Ala
 20 25

<210> 24
 <211> 27
 <212> PRT
 <213> Modified Homo sapiens

<400> 24

Lys Lys Lys Lys Thr Met Thr Thr Gln Ser Ser Gly Ser Arg Ala Leu
 1 5 10 15

Ala Arg Ser Gly Ser Ser Gln Thr Thr Met Thr
 20 25

<210> 25
 <211> 27
 <212> PRT
 <213> Modified Homo sapiens

<400> 25

Lys Lys Lys Lys Ala Arg Ser Gly Ser Ser Gln Thr Thr Met Thr Leu
 1 5 10 15

Ala Arg Ser Gly Ser Ser Gln Thr Thr Met Thr
20 25

<210> 26
<211> 27
<212> PRT
<213> Modified Homo sapiens

<400> 26

Lys Lys Lys Lys Pro Ala Arg Val Gly Leu Gly Ile Thr Thr Val Leu
1 5 10 15

Val Thr Thr Ile Gly Leu Gly Val Arg Ala Ala
20 25

<210> 27
<211> 27
<212> PRT
<213> Modified Homo sapiens

<400> 27

Lys Lys Lys Lys Ala Ala Arg Val Gly Leu Gly Ile Thr Thr Val Leu
1 5 10 15

Val Thr Thr Ile Gly Leu Gly Val Arg Ala Ala
20 25

<210> 28
<211> 26
<212> PRT
<213> Modified Homo sapiens

<400> 28

Lys Lys Lys Lys Ala Ala Arg Val Gly Leu Gly Ile Thr Thr Val Val
1 5 10 15

Thr Thr Ile Gly Leu Gly Val Arg Ala Ala
20 25

<210> 29
<211> 28
<212> PRT
<213> Modified Homo sapiens

Lys Lys Lys Lys Ala Ala Arg Val Gly Leu Gly Ile Thr Thr Val Leu
1 5 10 15

```
<210> 30
<211> 29
<212> PRT
<213> Modified Homo sapiens
```

Lys Lys Lys Lys Ala Ala Arg Val Gly Leu Gly Ile Thr Thr Val Leu
1 5 10 15

```
<210> 31
<211> 30
<212> PRT
<213> Modified Homo sapiens
```

Lys Lys Lys Lys Ala Ala Arg Val Gly Leu Gly Ile Thr Thr Val Leu
1 5 10 15

```
<210> 32
<211> 22
<212> PRT
<213> Modified Homo sapiens
```

<400> 32

Page 9

1 5 10 15

Thr Arg Thr Thr Xaa Ser
20

<210> 33
<211> 25
<212> PRT
<213> Modified Homo sapiens

<400> 33

Lys Lys Lys Lys Pro Ala Arg Val Gly Leu Gly Ile Thr Thr Val Leu
1 5 10 15

Thr Met Thr Thr Gln Ser Ser Gly Ser
20 25

<210> 34
<211> 22
<212> PRT
<213> Modified Homo sapiens

<400> 34

Lys Lys Lys Lys Pro Ala Arg Val Gly Leu Gly Ile Thr Thr Val Leu
1 5 10 15

Thr Met Thr Thr Gln Ser
20

<210> 35
<211> 21
<212> PRT
<213> Modified Homo sapiens

<400> 35

Lys Lys Lys Lys Pro Ala Arg Val Gly Leu Gly Ile Thr Thr Val Leu
1 5 10 15

Thr Met Thr Thr Gln
20

<210> 36
<211> 20
<212> PRT
<213> Modified Homo sapiens

<400> 36

Lys Lys Lys Lys Pro Ala Arg Val Gly Leu Gly Ile Thr Thr Val Leu
1 5 10 15

Thr Met Thr Thr
20

<210> 37

<211> 19

<212> PRT

<213> Modified Homo sapiens

<400> 37

Lys Lys Lys Lys Pro Ala Arg Val Gly Leu Gly Ile Thr Thr Val Leu
1 5 10 15

Thr Met Thr

<210> 38

<211> 18

<212> PRT

<213> Modified Homo sapiens

<400> 38

Lys Lys Lys Lys Pro Ala Arg Val Gly Leu Gly Ile Thr Thr Val Leu
1 5 10 15

Thr Met

<210> 39

<211> 17

<212> PRT

<213> Modified Homo sapiens

<400> 39

Lys Lys Lys Lys Pro Ala Arg Val Gly Leu Gly Ile Thr Thr Val Leu
1 5 10 15

Thr

<210> 40
 <211> 16
 <212> PRT
 <213> Modified Homo sapiens

<400> 40

Lys Lys Lys Lys Pro Ala Arg Val Gly Leu Gly Ile Thr Thr Val Leu
 1 5 10 15

<210> 41
 <211> 25
 <212> PRT
 <213> Modified Homo sapiens

<400> 41

Arg Val Gly Leu Gly Ile Thr Thr Val Leu Thr Met Thr Thr Gln Ser
 1 5 10 15

Ser Gly Ser Arg Ala Lys Lys Lys Lys
 20 25

<210> 42
 <211> 23
 <212> PRT
 <213> Modified Homo sapiens

<400> 42

Gly Leu Gly Ile Thr Thr Val Leu Thr Met Thr Thr Gln Ser Ser Gly
 1 5 10 15

Ser Arg Ala Lys Lys Lys Lys
 20

<210> 43
 <211> 22
 <212> PRT
 <213> Modified Homo sapiens

<400> 43

Leu Gly Ile Thr Thr Val Leu Thr Met Thr Thr Gln Ser Ser Gly Ser
 1 5 10 15

Arg Ala Lys Lys Lys Lys
 20

<400> 44

Ala Lys Lys Lys Lys
20

<400> 45

Lys Lys Lys Lys
20

<400> 46

<400> 47

Thr Met Thr Thr Gln Ser Ser Gly Ser Arg Ala Lys Lys Lys Lys

<210> 48
<211> 11
<212> PRT
<213> Modified Homo sapiens

<400> 48

Pro Ala Arg Val Gly Leu Gly Ile Thr Thr Val
1 5 10

<210> 49
<211> 11
<212> PRT
<213> Modified Homo sapiens

<400> 49

Thr Met Thr Thr Gln Ser Ser Gly Ser Arg Ala
1 5 10

<210> 50
<211> 11
<212> PRT
<213> Modified Homo sapiens

<400> 50

Val Thr Thr Ile Gly Leu Gly Val Arg Ala Pro
1 5 10

<210> 51
<211> 11
<212> PRT
<213> Modified Homo sapiens

<400> 51

Ala Arg Ser Gly Ser Ser Gln Thr Thr Met Thr
1 5 10

<210> 52
<211> 11
<212> PRT
<213> Modified Homo sapiens

<400> 52

30917 Tomich.ST25.txt

30917 Tomich.ST25.txt

Ala Ala Arg Val Gly Leu Gly Ile Thr Thr Val
1 5 10

<210> 53

<211> 11

<212> PRT

<213> Modified Homo sapiens

<400> 53

Val Thr Thr Ile Gly Leu Gly Val Arg Ala Ala
1 5 10